

Fig. 1

Table 1 ANSI-Compliant Interface Specification (Compressor Input)

FIELD NAME	MAX SIZE (BYTES) & TYPE	OPTIONAL
Message Header 1)>Rs	4	
Format 01 Header 01 Gs96	5	
Ship to Postal Code	Mode 2, 9N Mode 3, 6AN	
Field Separator Gs	1	
Ship to ISO Country Code	3N	
Field Separator Gs	1	
Class of Service	3N	
Field Separator Gs	1	
Tracking Number	10AN	
Field Separator Gs	1	
Origin Carrier SCAC UPSN	4	
Field Separator Gs	1	X
Shipper ID	6AN	
Field Separator Gs	1	
Julian Date of Pickup	N3	
Field Separator Gs	1	
Shipment ID	ANO. 30	
Field Separator Gs	1	
Shipment N of X	NO. 3/NO. 3	
Field Separator Gs	1	
Weight	NO. 10	
Field Separator Gs	1	
Address Validation (Y/N)	1	
Field Separator Gs	1	
Ship To Address	ANO. 35	
Field Separator Gs	1	
Ship To City	A0. 35	
Field Separator Gs	1	
Ship To State	A2	
Format Trailer Rs	1	
Format 05 Header	2	
Field Separator Gs	1	
Ship To Address Line 2 Application Identifier (201)	AN3 + ANO. 35	
Field Separator Gs	1	
Ship To Address Line 3 Application Identifier (211)	AN3 + ANO. 35	
Field Separator Gs	1	
Ship To Address Line 4 Application Identifier (22L)	AN3 + ANO. 35	
Field Separator Gs	1	
Ship To Address Line 5 Application Identifier (23L)	AN3 + ANO. 35	
Format Trailer (Rs)	1	
Message Trailor Lot	1	

FIG. 2

Package Info: Music Corp
Attn: Sam Smith
Room 202, Music Dept
813 Main St
Shaumburg, IL 12345
Country Code: 001
Class of Service: 001
Tracking Number: 1Z12345675
Shipper ID: 123456
Julian Date of Year: 123
Weight: 1lb
City/State/Postal Code have been validated

Fig. 3A

]>Rs
01Gs96123450000Gs001Gs001Gs1Z12345675GsUPSNGs123456
Gs123GsGs1/1Gs1GsY
Gs813 MAIN STGsSHAUMBURGGsILRs
05Gs20LROOM 202Gs21LMUSIC DEPTGs22LMUSIC
CORPGs23LSAM SMITHRs
Eot

Fig. 3B

[illegible]

Fig. 4A

{"CORS", 0000000000000011101101000010011b, 18, 0, 25 },
 {"CPE", 000000000000000000001000100100000b, 13, 0, 20 },
 {"CRES", 000000000000000000001001111101000b, 13, 0, 25 },
 {"CRK", 0000000000000000000010110001000001011b, 18, 0, 20 },
 {"CRSE", 0000000000000000000010001001110000010b, 23, 0, 25 },
 {"CRST", 000000000000000000001000100111011011b, 22, 0, 27 },
 {"CSWY", 0000000000000000000010001001110111b, 20, 0, 26 },
 {"CT", 000000000000000000000000111011011b, 10, 0, 14 },
 {"CTR", 000000000000000000000000000010001110b, 10, 0, 21 },
 {"CTRS", 0000000000000000000000101101001101010b, 18, 0, 27 },
 {"CTS", 00000000000000000000000000001011010100b, 12, 0, 20 },
 {"CURV", 000000000000000000001000100100101101b, 19, 0, 28 },
 {"CVS", 00000000000000000000100010010001111000b, 18, 0, 20 },
 {"CYN", 00000000000000000000000000001101101001100b, 15, 0, 19 },
 {"D", 00000000000000000000000000000000101000b, 6, 0, 0 },
 {"DEPT", 0000000000000000000000000000101100001000b, 12, 0, 28 },
 {"DR", 0000000000000000000000000000000010011100b, 8, 0, 13 },
 {"DRS", 00000000000000000000001011000100000100b, 16, 0, 19 },
 {"DV", 00000000000000000000000000001011000100001b, 13, 0, 14 },
 {"E", 000000000000000000000000000000000101010b, 6, 0, 0 },
 {"EA", 00000000000000000000000000000000111011011b, 9, 0, 12 },
 {"EAST", 000000000000000000000000000000001010010000b, 10, 0, 26 },
 {"ED", 000000000000000000000000000000000101100000b, 9, 0, 12 },
 {"EE", 000000000000000000000000000000000111000110b, 9, 0, 12 },
 {"EN", 000000000000000000000000000000000011101b, 7, 0, 12 },
 {"ER", 0000000000000000000000000000000001110100b, 7, 0, 13 },
 {"ES", 00000000000000000000000000000000010111000b, 8, 0, 12 },
 {"EST", 000000000000000000000000000000000101101b, 10, 0, 20 },
 {"ESTS", 0000000000000000000000000000000001000101100b, 16, 0, 26 },
 {"EXPY", 0000000000000000000000000000000001000100100010111b, 18, 0, 29 },
 {"EXT", 000000000000000000000000000000000111011010001b, 14, 0, 22 },
 {"EXTS", 00000000000000000000000000000000010001001110000001b, 24, 0, 28 },
 {"EY", 000000000000000000000000000000000000000101b, 9, 0, 13 },
 {"F", 0011010b, 7, 0, 0 },
 {"FALL", 0000000000000000000000000000000001101110110b, 14, 0, 23 },
 {"FL", 001001101b, 10, 0, 12 },
 {"FLS", 001000111110b, 17, 0, 18 },
 {"FLTS", 0011011010011010000b, 24, 0, 26 },
 {"FRNT", 00111011010000100100001b, 22, 0, 28 },
 {"FRST", 001011010011010010101b, 22, 0, 28 },
 {"FRY", 00010110101101101b, 16, 0, 21 },
 {"FT", 000110111100b, 11, 0, 15 },
 {"FWY", 0001110110100001010b, 17, 0, 21 },
 {"G", 00111010b, 7, 0, 0 },
 {"GDNS", 00011101101000010010010b, 21, 0, 25 },
 {"GRN", 00111011010000100101b, 19, 0, 20 },
 {"GRNS", 0011011010011010010110100b, 25, 0, 26 },
 {"GRVS", 0010001001110000000010b, 26, 0, 28 },
 {"GTWY", 00011011010011010010000b, 22, 0, 29 },
 {"H", 00111101b, 7, 0, 0 },
 {"HBR", 001000101111b, 16, 0, 21 },
 {"HIGH", 0010110110001b, 11, 0, 27 },

Fig. 4D

{ "HILL", 0000000000000000000010011011110b, 11, 0, 23 },
 { "HLS", 0000000000000000000010001001100b, 17, 0, 18 },
 { "HNGR", 00000000000001101101001101001001b, 21, 0, 27 },
 { "HOLW", 00000000000000000010001001110001b, 20, 0, 25 },
 { "HOME", 0000000000000000000111011001010b, 12, 0, 25 },
 { "HTS", 00000000000000000001011100100110b, 13, 0, 21 },
 { "HWY", 00000000000000000000000000001100001b, 10, 0, 21 },
 { "I", 000000000000000000000000000001111b, 6, 0, 0 },
 { "IA", 000000000000000000000000011110000b, 9, 0, 12 },
 { "IN", 000000000000000000000000000001110b, 7, 0, 12 },
 { "INC", 0000000000000000000000000000010010b, 8, 0, 18 },
 { "IND", 00000000000000000000000001010010100b, 10, 0, 18 },
 { "ING", 000000000000000000000000000001010b, 8, 0, 19 },
 { "INLT", 00000000001101101001101001011011b, 24, 0, 25 },
 { "IO", 000000000000000000000000010000011101b, 11, 0, 12 },
 { "ION", 0000000000000000000000000101001001b, 9, 0, 18 },
 { "IR", 0000000000000000000000000000010000001b, 9, 0, 13 },
 { "IS", 0000000000000000000000000000010001b, 8, 0, 12 },
 { "ISLE", 000000000000000000000000011011110111b, 15, 0, 23 },
 { "ISS", 00000000000000000000000001101101000b, 12, 0, 18 },
 { "IT", 0000000000000000000000000000011011010b, 9, 0, 14 },
 { "IVE", 00000000000000000000000000000100111101b, 9, 0, 20 },
 { "J", 00000000000000000000000000000101110b, 8, 0, 0 },
 { "JCT", 000000000000000000011011110111000b, 18, 0, 22 },
 { "JCTS", 00000000000110110100110100101100b, 23, 0, 28 },
 { "K", 0000000000000000000000000000010010b, 7, 0, 0 },
 { "KY", 0000000000000000000000000000010011b, 12, 0, 14 },
 { "KYS", 00000000000001000100100010101100b, 19, 0, 20 },
 { "L", 0000000000000000000000000000010010b, 5, 0, 0 },
 { "LABE", 000000000000000000000000010110011001b, 11, 0, 24 },
 { "LAKE", 0000000000000000000000000000011111101b, 11, 0, 24 },
 { "LAND", 000000000000000000000000000001111100b, 10, 0, 23 },
 { "LANE", 000000000000000000000000010011101111b, 11, 0, 23 },
 { "LBBY", 000000000000000000010001001110000010b, 24, 0, 26 },
 { "LKS", 000000000000000000000000010001001000011100b, 17, 0, 18 },
 { "LNDG", 000000000001111011010000100100010b, 22, 0, 24 },
 { "LOOP", 0000000000000000000001011000100000b, 14, 0, 25 },
 { "LOT", 00000000000000000000000001101111010b, 13, 0, 19 },
 { "LOWR", 0000000000000000000101101010111000b, 17, 0, 25 },
 { "M", 00000000000000000000000000000111001b, 6, 0, 0 },
 { "MALL", 0000000000000000000000000110111011b, 11, 0, 22 },
 { "MDWS", 00000000000000000001000100111011010b, 22, 0, 25 },
 { "MEWS", 0000000000000111101101000010010011b, 21, 0, 25 },
 { "MRS", 0000000000000000000000000100110000b, 13, 0, 19 },
 { "MS", 000000000000000000000000000001110b, 10, 0, 12 },
 { "MT", 000000000000000000000000011011110100b, 13, 0, 14 },
 { "MTN", 0000000000000000000000000110111101101b, 16, 0, 20 },
 { "MTNS", 000000000011011010011010010110101b, 25, 0, 26 },
 { "MTWY", 00000000000010001001110000000011b, 26, 0, 28 },
 { "N", 00000000000000000000000000000101b, 6, 0, 0 },
 { "NCK", 000000000000000000000000010001001000111101b, 17, 0, 19 },
 { "NE", 000000000000000000000000000001111100b, 8, 0, 12 },

Fig. 4E

FIELD NAME	MAX SIZE SYMBOLS & TYPE
Message Header 1>Rs	6 (includes two symbols for Codeset A Escape characters)
Format 01 Header 01Gs 96	5
Ship to Postal Code	Mode 2-9N Mode 3-6AN
Field Separator Gs	1
Ship to ISO Country Code	3N
Field Separator Gs	1
Class of Service	3N
Field Separator Gs	1
Tracking Number	10AN Track #
Field Separator Gs	1
Origin Carrier SCAC UPSN	4
Field Separator Gs	1
Shipper ID	6AN
Format Trailer Rs	1
Format Header Indicator (07) (free form text) ⁵	2
UPS Free Form Text	AN45
Format Trailer (Rs)	1
Message Trailer Eot	2 (includes one symbol for Codeset A Escape character)
Total Symbols in Secondary Portion of MaxiCode	84

FIG. 5

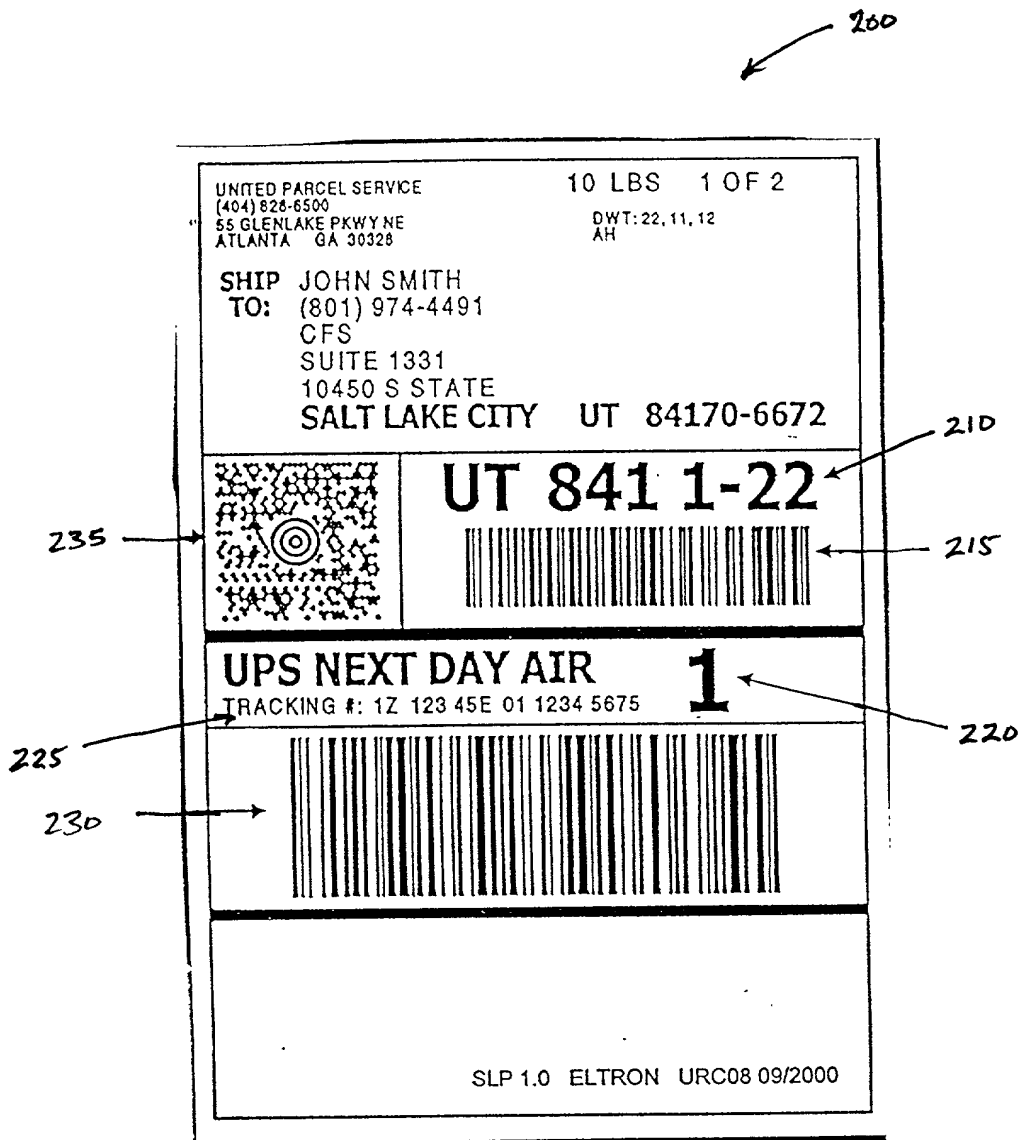


Fig. 6

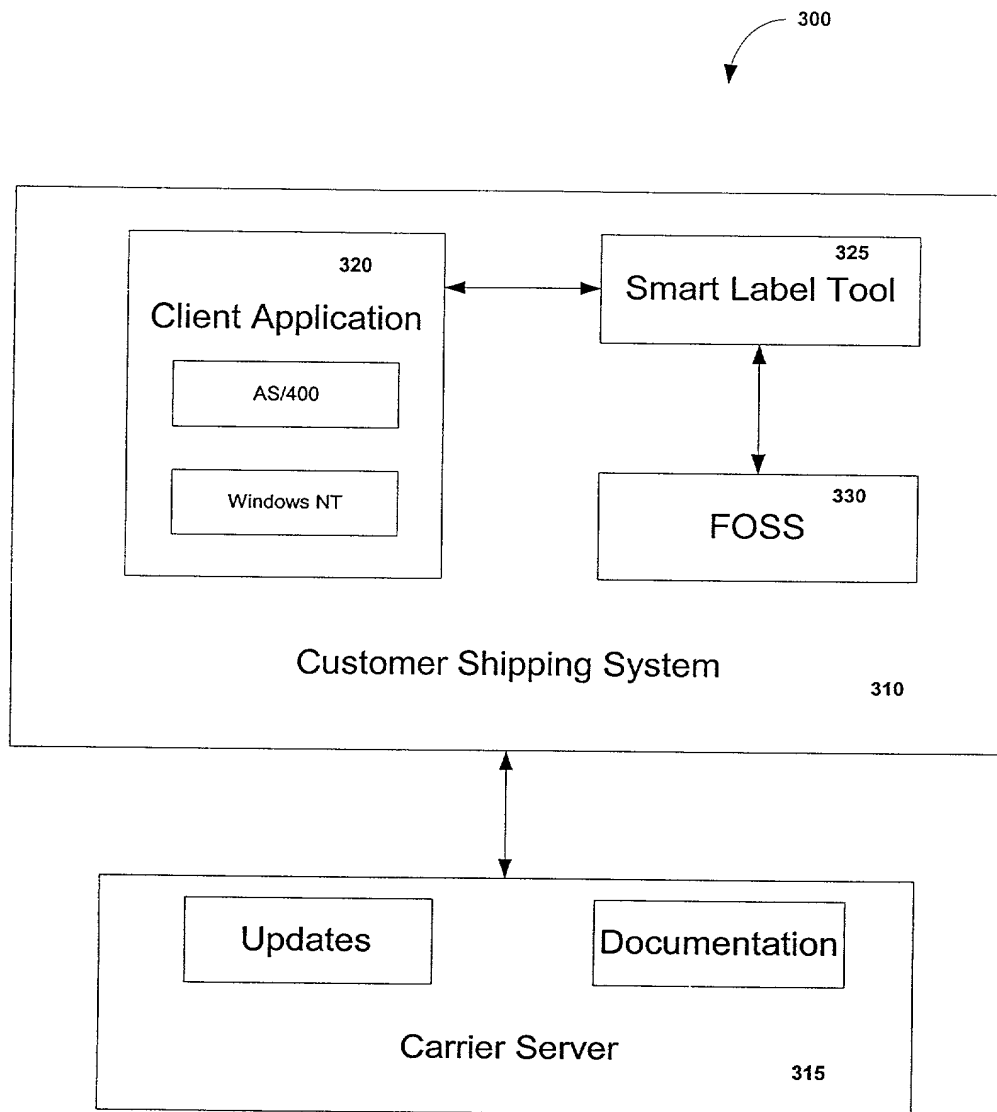


Fig. 7

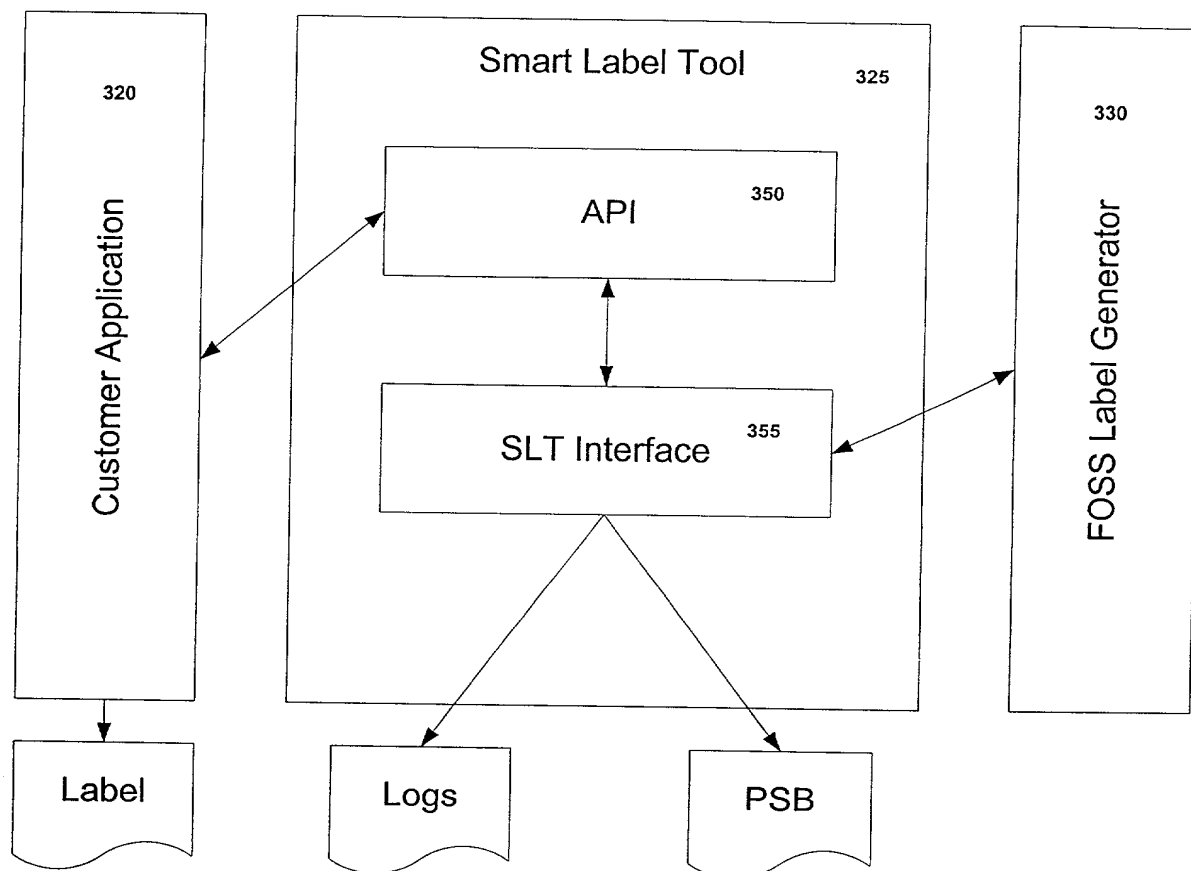


Fig. 8

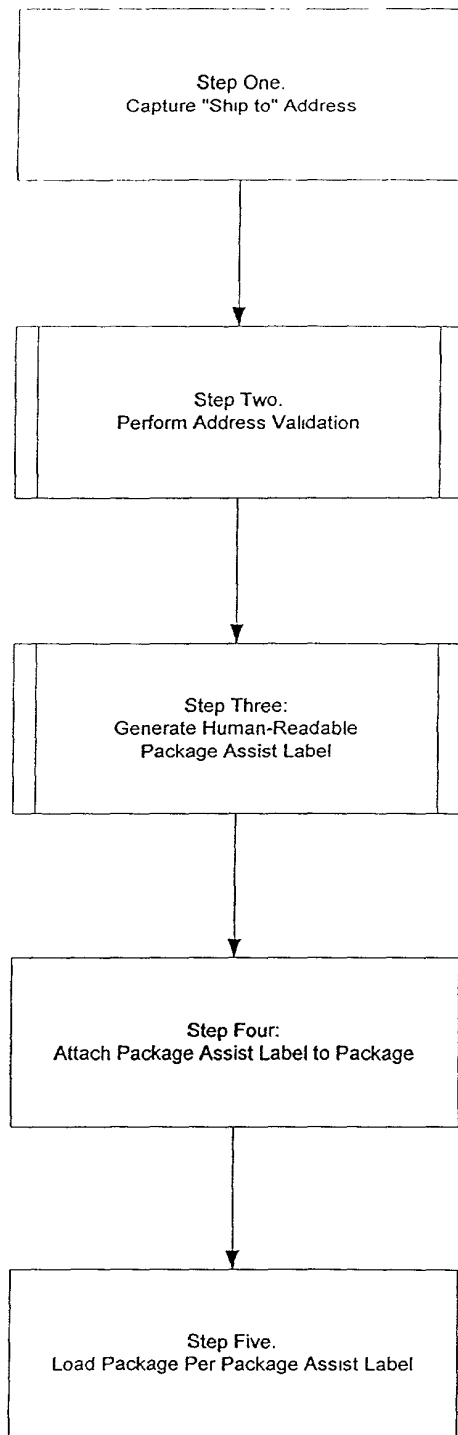


Fig. 9

500

Preload Assist Label (PAL)

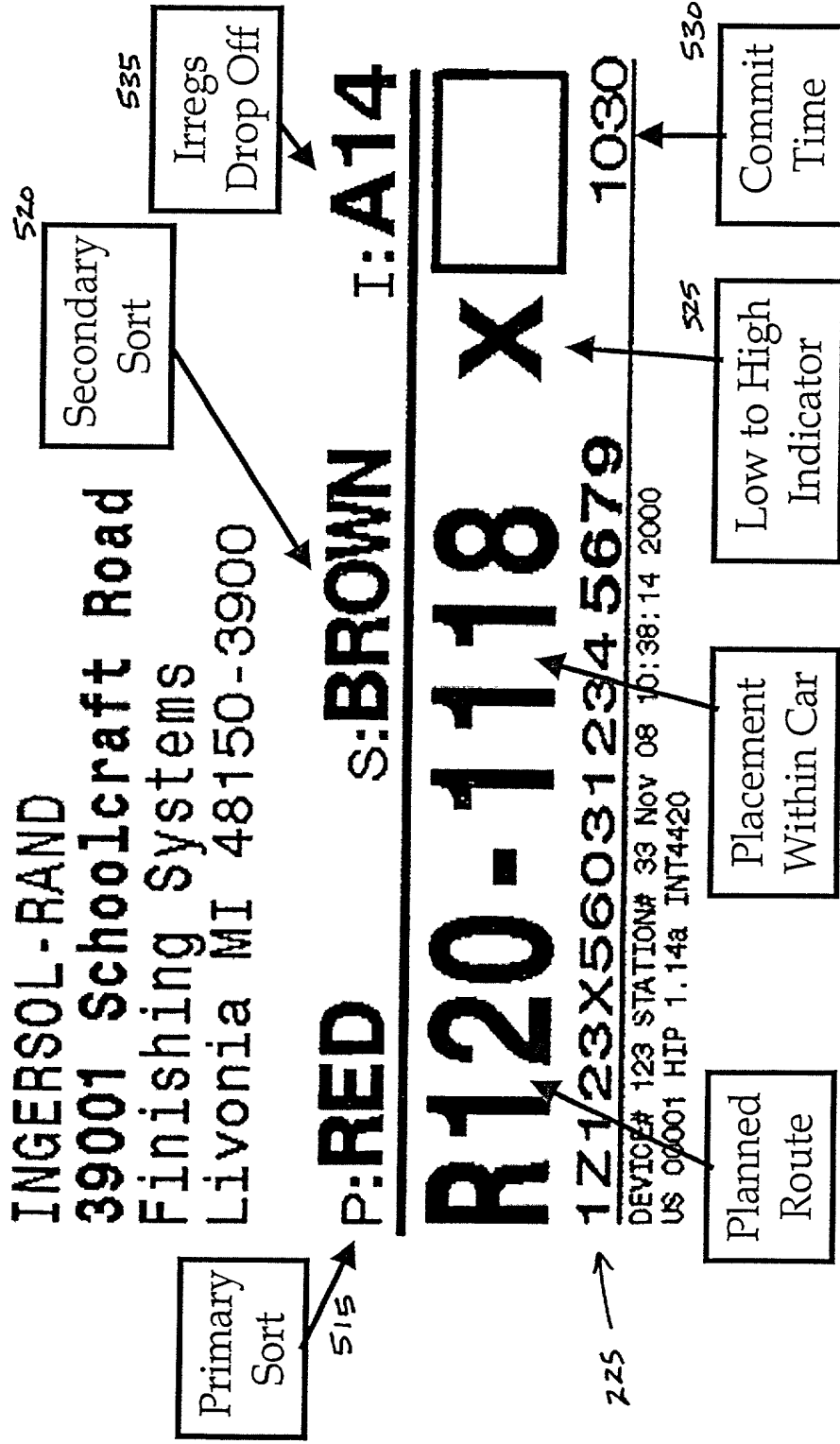


Fig. 10

Layer 1 - IDA Work Assignment

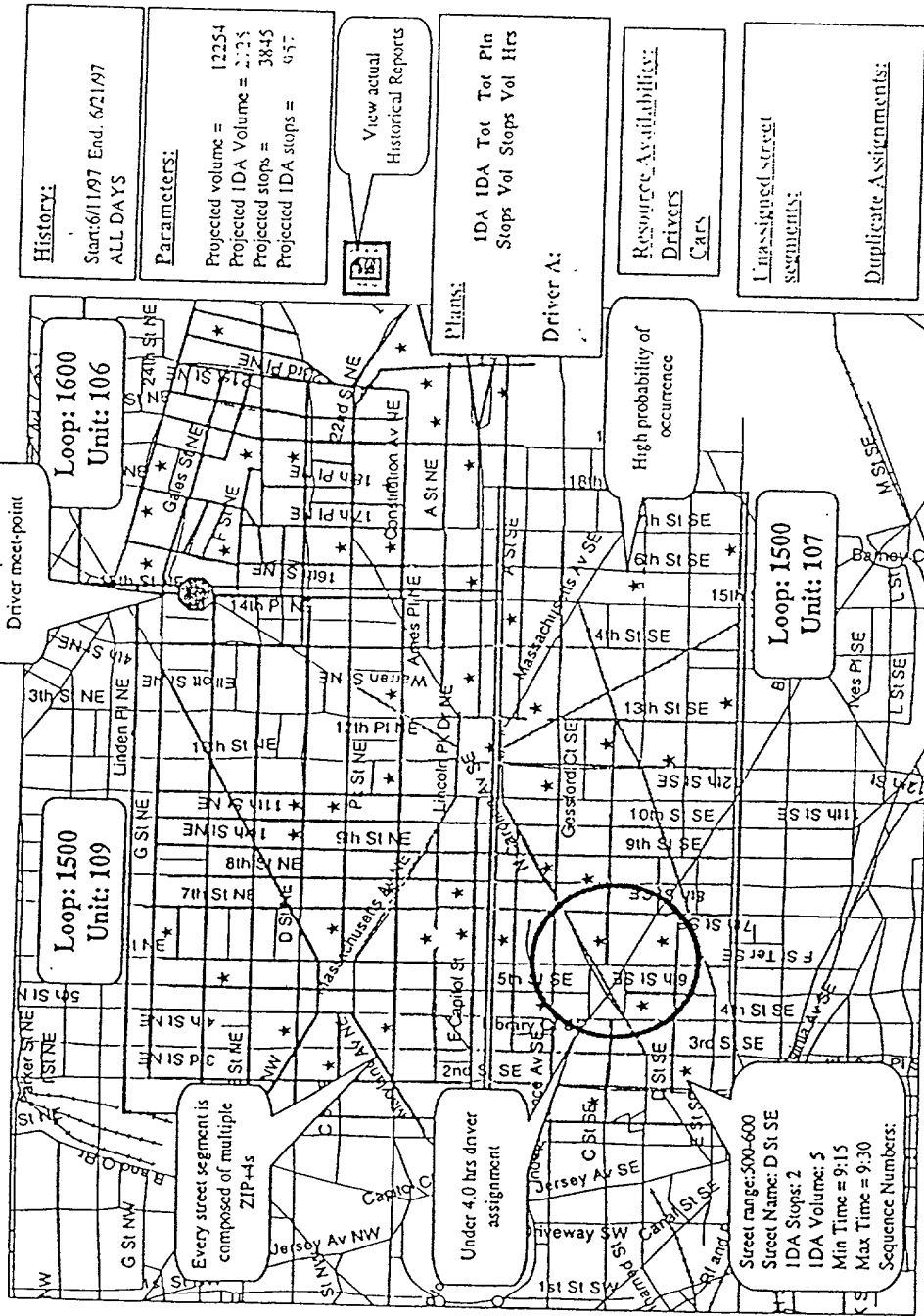


Fig. 11

Layer 2 - Pickup Work Assignment

Fig. 12

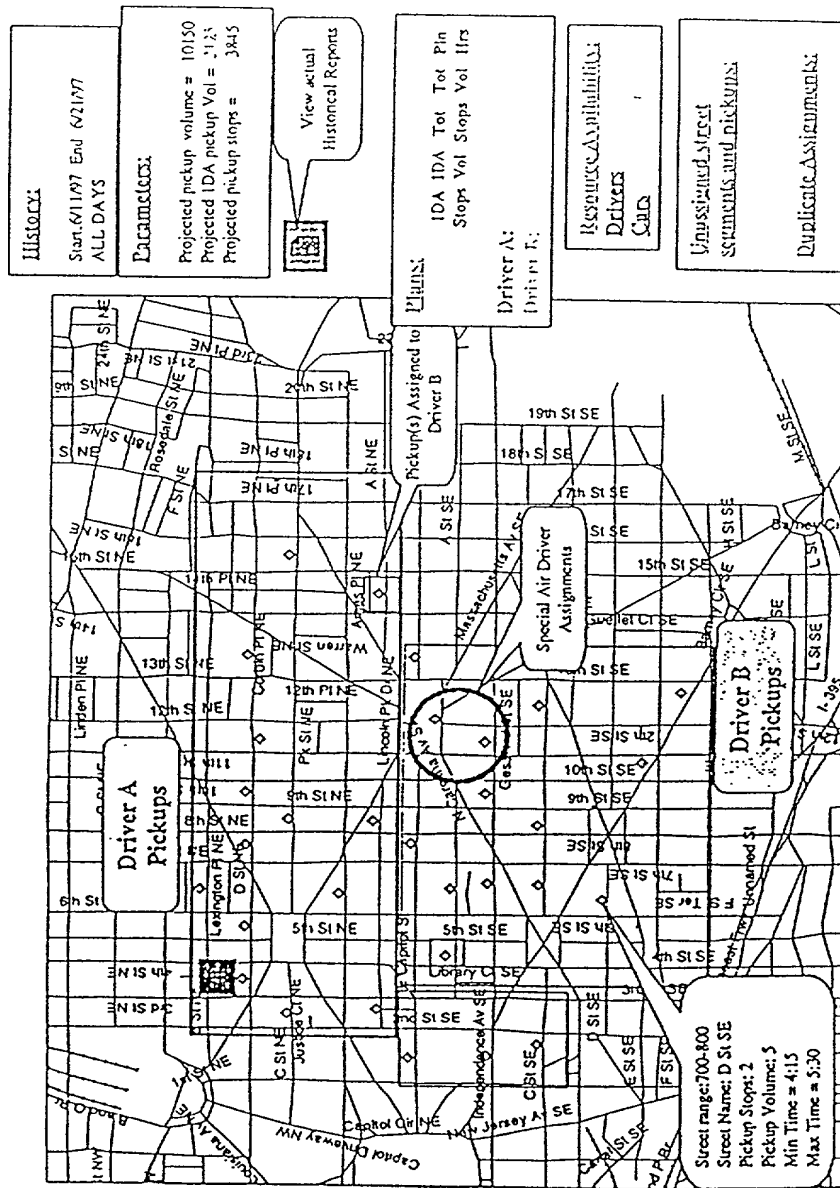
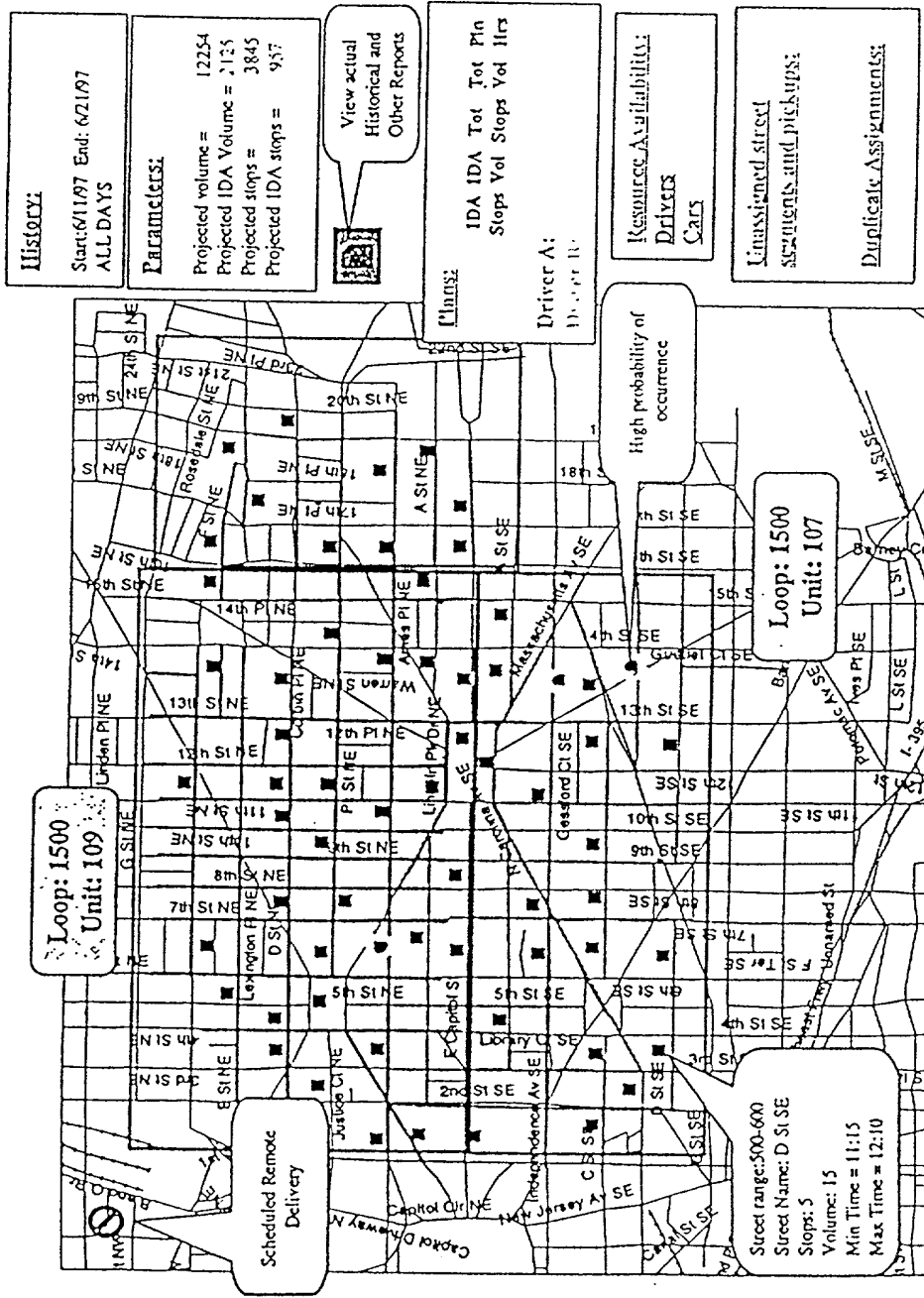


Fig. 13

Layer 3 - Other Delivery Work Assignment



Layer 4 - Actual Driver Trace and Performance

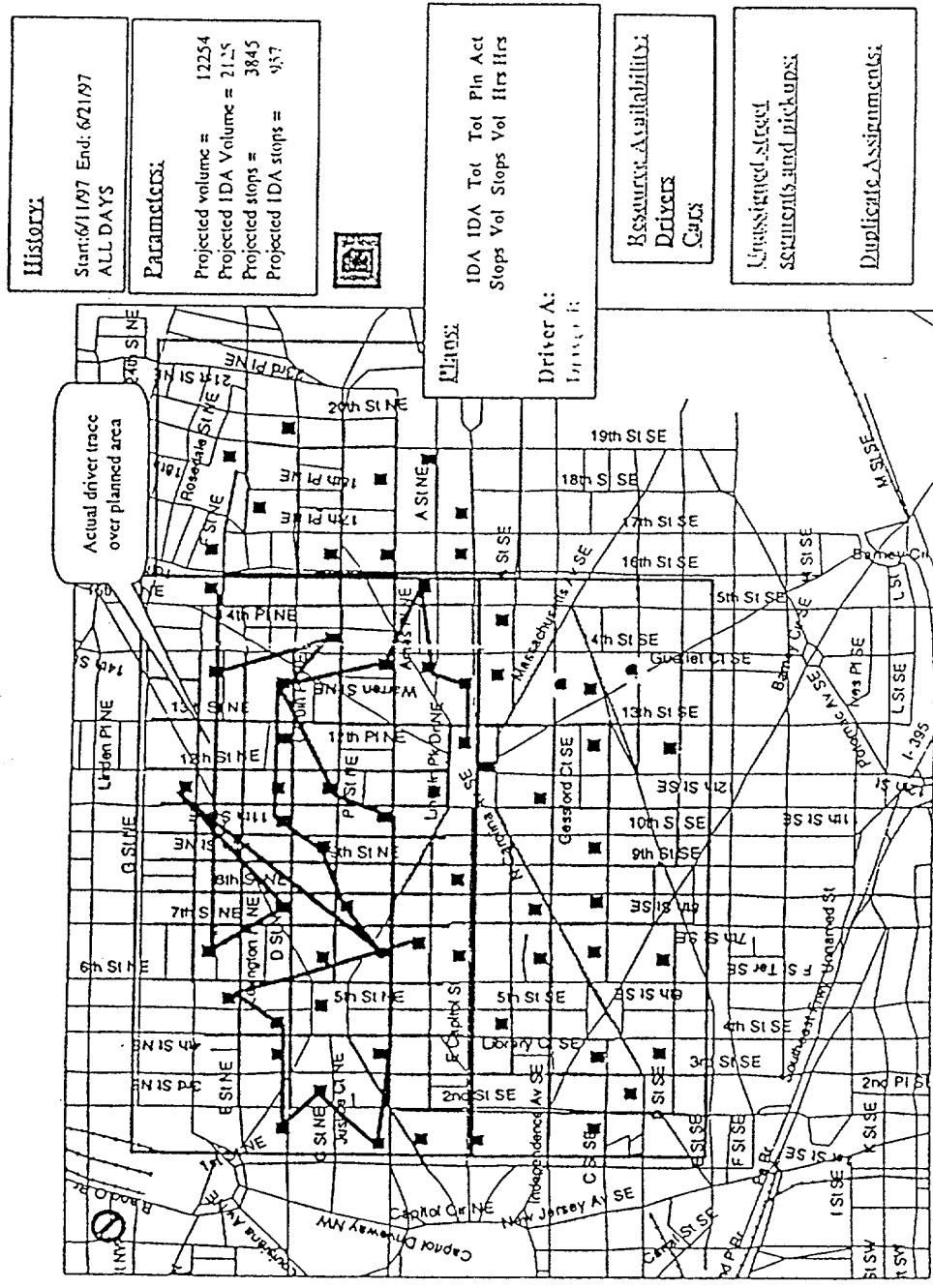


Fig. 14

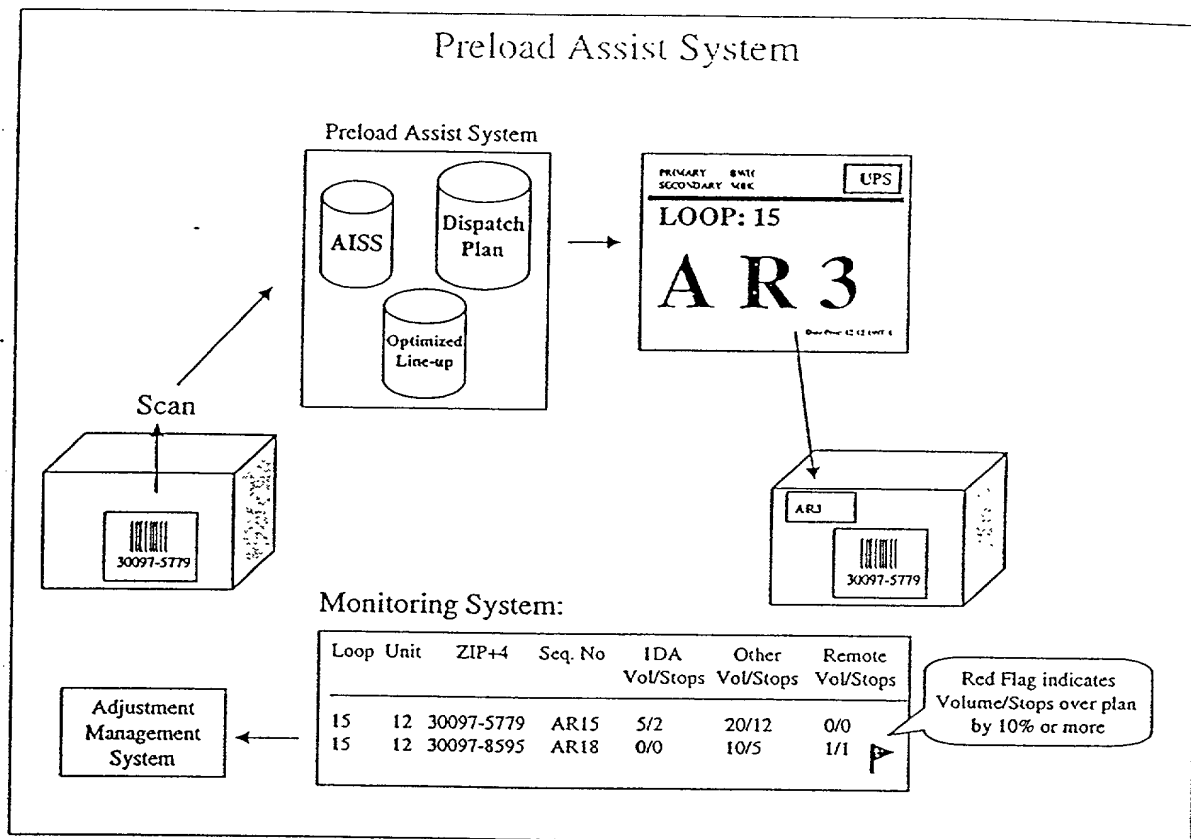


Fig. 15